

IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

Claim 1 (Currently Amended): A location register for carrying out location registration of a mobile communication terminal, said location register comprising:
storage means for storing information concerning a number of consecutive stays of said mobile communication terminal in a location;

determination means for determining a period of location registration of said mobile communication terminal according to said number of consecutive stays of said mobile communication terminal stored in said ~~first~~ storage means; and

registration means for transmitting said period of location registration determined by said determination means to said mobile communication terminal, receiving location information transmitted from said mobile communication terminal in response to transmitting said period of location registration, and carrying out location registration of said mobile communication terminal according to said received location information.

Claim 2 (Previously Presented): A location register according to claim 1, wherein said determination means further determines an administrative time for location registration of said mobile communication terminal according to said information concerning said number of consecutive stays of said mobile communication terminal stored in said storage means; and

wherein said registration means carries out location registration of said mobile communication terminal within a range of said administrative time determined by said determination means.

Claim 3 (Previously Presented): A location register for carrying out location registration of a mobile communication terminal, said location register comprising:

storage means for storing information concerning a frequency of arrival of incoming calls to said mobile communication terminal;

determination means for determining a period of location registration of said mobile communication terminal according to said information concerning said frequency of arrival of incoming calls to said mobile communication terminal stored in said storage means; and

registration means for transmitting said period of location registration determined by said determination means to said mobile communication terminal, receiving location information transmitted from said mobile communication terminal in response to said transmitted period of location registration, and carrying out location registration of said mobile communication terminal according to said received location information.

Claim 4 (Previously Presented): A location register according to claim 3, wherein said determination means further determines an administrative time for location registration of said mobile communication terminal according to said information concerning said frequency of arrival of incoming calls to said mobile communication terminal stored in said storage means; and

wherein said registration means carries out location registration of said mobile communication terminal within a range of said administrative time determined by said determination means.

Claim 5 (Previously Presented): A location register for carrying out location registration of a mobile communication terminal, said location register comprising:

storage means for storing information concerning a movement status of said mobile communication terminal and information concerning a frequency of arrival of incoming calls to said mobile communication terminal;

determination means for determining a period of location registration of said mobile communication terminal according to said information concerning said movement status of said mobile communication terminal and said information concerning said frequency of arrival of incoming calls to said mobile communication terminal stored in said storage means; and

registration means for transmitting said period of location registration determined by said determination means to said mobile communication terminal, receiving location information transmitted from said mobile communication terminal in response to said transmitted period of location registration, and carrying out location registration of said mobile communication terminal according to said received location information.

Claim 6 (Currently Amended): A location register according to claim 5, wherein said determination means further determines an administrative time for location registration of said mobile communication terminal according to said information concerning said movement status of said mobile communication terminal and said information concerning said frequency of arrival of incoming calls to said mobile communication terminal stored in said storage means; and

wherein said registration means carries out location registration of said mobile communication terminal within a range of said administrative time determined by said determination means.

Claim 7 (Previously Presented): A location registration system comprising:

a mobile communication terminal; and

a location register configured to carry out location registration of said mobile communication terminal;

wherein said location register is the location register according to claim 1.

Claim 8 (Previously Presented): A location registration system comprising:

a mobile communication terminal; and

a location register for carrying out location registration of said mobile communication terminal;

wherein said location register is the location register according to claim 3.

Claim 9 (Previously Presented): A location registration system comprising:

a mobile communication terminal; and

a location register for carrying out location registration of said mobile communication terminal;

wherein said location register is the location register according to claim 5.

Claim 10 (Currently Amended): A location registration method for carrying out location registration of a mobile communication terminal, said location registration method comprising:

a storage step of storing information concerning a number of consecutive stays of said mobile communication terminal in a location into storage means;

a determination step of determining a period of location registration of said mobile communication terminal according to said number of consecutive stays of said mobile communication terminal stored in said storage step;

a transmission step of transmitting said period of location registration determined in said determination step to said mobile communication terminal;

a receiving step of receiving location information of said mobile communication terminal transmitted from said mobile communication terminal in response to said period of location registration transmitted in said transmission step; and

a ~~first~~ registration step of carrying out location registration of said mobile communication terminal according to said location information received in said receiving step.

Claim 11 (Previously Presented): A location registration method according to claim 10, wherein said determination step further determines an administrative time for location registration of said mobile communication terminal according to said information concerning said number of consecutive stays of said mobile communication terminal stored in said storage means; and

wherein said registration step carries out location registration of said mobile communication terminal within a range of said administrative time determined in said determination step.

Claim 12 (Currently Amended): A location registration method for carrying out location registration of a mobile communication terminal, said location registration method comprising:

a storage step of storing information concerning a frequency of arrival of incoming calls to said mobile communication terminal into a storage means;

a determination step of determining a period of location registration of said mobile communication terminal according to said information concerning said frequency of arrival

of incoming calls to said mobile communication terminal stored in said storage means in said storage step;

a transmission step of transmitting said period of location registration determined in said determination step to said mobile communication terminal;

a receiving step of receiving location information of said mobile communication terminal transmitted from said mobile communication terminal in response to said period of location registration transmitted in said transmission step; and

a ~~second~~ registration step of carrying out location registration of said mobile communication terminal according to said location information received in said receiving step.

Claim 13 (Previously Presented): A location registration method according to claim 12, wherein said determination step further determines an administrative time for location registration of said mobile communication terminal according to said information concerning said frequency of arrival of incoming calls to said mobile communication terminal stored in said storage means; and

wherein said registration step carries out location registration of said mobile communication terminal within a range of said administrative time determined in said determination step.

Claim 14 (Previously Presented): A location registration method for carrying out location registration of a mobile communication terminal, said location registration method comprising:

a storage step of storing information concerning a movement status of said mobile communication terminal and information concerning a frequency of arrival of incoming calls to said mobile communication terminal into a storage means;

a determination step of determining a period of location registration of said mobile communication terminal according to said information concerning said movement status of said mobile communication terminal and said information concerning said frequency of arrival of incoming calls to said mobile communication terminal stored in said storage step;

a transmission step of transmitting said period of location registration determined in said determination step to said mobile communication terminal;

a receiving step of receiving location information of said mobile communication terminal transmitted from said mobile communication terminal in response to said period of location registration transmitted in said transmission step; and

a registration step of carrying out location registration of said mobile communication terminal according to said location information received in said receiving step.

Claim 15 (Previously Presented): A location registration method according to claim 14, wherein said determination step further determines an administrative time for location registration of said mobile communication terminal according to said information concerning said movement status of said mobile communication terminal and said information concerning said frequency of arrival of incoming calls to said mobile communication terminal stored in said storage means; and

wherein said registration step carries out location registration of said mobile communication terminal within a range of said administrative time determined in said determination step.

Claim 16 (Previously Presented): A location register for carrying out location registration of a mobile communication terminal, said location register comprising:

a storage means for storing information concerning a movement status of said mobile communication terminal and/or information concerning a frequency of arrival of incoming calls to said mobile communication terminal;

determination means for determining a period of location registration of said mobile communication terminal according to said information stored in said storage means; and

registration means for transmitting said period of location registration determined by said determination means to said mobile communication terminal,

receiving location information transmitted from said mobile communication terminal in response to said transmitted period of location registration, and carrying out location registration of said mobile communication terminal according to said received location information,

wherein said determination means further individually determines an administrative time for location registration of said mobile communication terminal according to said information stored in said storage means for each mobile communication terminal,

wherein said administrative time is set longer than said period of location registration, and

wherein said registration means carries out location registration of said mobile communication terminal within a range of said administrative time determined by said determination means.

Claim 17 (Previously Presented): A location register according to claim 16, wherein the storage means is adapted for storing information only concerning a frequency of arrival of incoming calls to said mobile communication terminal.

Claim 18 (Previously Presented): A location register according to claim 16, wherein the storage means is adapted for storing information concerning a movement status of said mobile communication terminal and information concerning a frequency of arrival incoming calls to said mobile communication terminal.

Claim 19 (Previously Presented): A location registration system comprising:
a mobile communication terminal; and
a location resister for carrying out location registration of said mobile communication terminal wherein said location register is the location register according to claim 16.

Claim 20 (Previously Presented): A location registration method for carrying out location registration of mobile communication terminal, said location registration method comprising:

a storage step of storing information concerning a movement status of said mobile communication terminal and/or information concerning a frequency of arrival of incoming calls to said mobile communication terminal into storage means;

a determination step of determining a period of location registration of said mobile communication terminal according to said information stored in said storage step;

a transmission step of transmitting said period of location registration determined in said determination step to said mobile communication terminal;

a receiving step of receiving location information of said mobile communication terminal transmitted from said mobile communication terminal in response to said period of location registration transmitted in said transmission step;

a registration step of carrying out location registration of said mobile communication terminal according to said location information received in said received step,

wherein said determination step further individually determines an administrative time for location registration of said mobile communication terminal according to said information stored in said storage means, for each mobile communication terminal, said administrative time being set longer than said period of location registration; and

said registration step carries out location registration of said mobile communication terminal within a range of said administrative time determined in said determination step.

Claim 21 (Previously Presented): A location registration method according to claim 20, with a storage step of storing information only concerning a frequency of arrival of incoming calls to said mobile communication terminal.

Claim 22 (Previously Presented): A location registration method according to claim 20, with a storage means of storing information concerning a movement status of said mobile communication terminal and information concerning a frequency of arrival of incoming calls to said mobile communication terminal.